AMENDMENTS

In the Claims

The following is a marked-up version of the claims with the language that is underlined ("___") being added and the language that contains strikethrough ("—") being deleted:

1.   (Currently Amended) A master ~~device,~~ set top terminal (STT), comprising:

a first tuner tuning a television signal from a received multiplexed ~~signal;~~ signal, into a first tuned television signal;

a second tuner tuning the television signal from the received multiplexed signal, into second tuned television signal;

an encoder coupled to the first tuner and receiving the first tuned television signal and digitally encoding the first tuned television signal;

a transmitter coupled to the encoder and transmitting the encoded signal to a remote ~~device~~ STT to be displayed on a viewing device;

a receiver receiving a control signal from the remote ~~device~~ STT corresponding to a user input; and

a controller coupled to the receiver and configured to accept the control signal from the receiver and instruct the first tuner to change the tuned television signal in response thereto, such that the transmitter transmits a changed encoded signal to the remote ~~device~~ STT for display on the viewing ~~device within three seconds from the remote device receiving the user input.~~ device.

2.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 1, wherein the changed encoded signal is displayed at the viewing device within two seconds from the remote ~~device~~ <u>STT</u> receiving the user input.

3.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 2, wherein the changed encoded signal is displayed at the viewing device within a half-second from the remote ~~device~~ <u>STT</u> receiving the user input.

4.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 3, wherein the transmitter and receiver operate according to a wireline standard selected from the group consisting of HomePlug and HomePNA.

5.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 2, wherein the transmitter and receiver operate according to a wireless standard selected from the group consisting of IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, Bluetooth 2.0, HomeRF 2.0, HiperLAN/2, and Ultra-Wideband standards.

6.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 5, wherein the video encoder uses a form of digital compression.

7.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 6, wherein the video encoder is selected from the group consisting of Microsoft NetMeeting, Windows Media Player, and Real Player.

8.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 6, wherein the low latency between the reception of the control signal and the transmission of the changed television signal is achieved by immediately encoding and transmitting a lower quality video signal.

9.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 8, wherein a higher quality video signal is transmitted after a period during which the lower quality video signal is transmitted.

10.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 9, wherein the period of lower quality video transmission allows the higher quality video signal to be encoded for transmission.

11.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 9, wherein the encoding format is at least one of H.263, H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

12.   (Currently Amended) The master ~~device~~ <u>STT</u> as defined in claim 11, wherein the encoding format is low bit-rate MPEG-2 and at least one of H.323, H.324, MPEG-1, MPEG-2 or MPEG-4.

13.   (Currently Amended) The master ~~device~~ STT as defined in claim 11, wherein the encoding format is H.263 and at least one of H.323, H.324, MPEG-1, MPEG-2 or MPEG-4.

14.   (Currently Amended) The master ~~device~~ STT as defined in claim 11, wherein the transmitted signal includes an encoding parameter enabling the remote ~~device~~ STT to decode the transmitted signal using multiple decoding algorithms according to the encoding parameters.

15.   (Currently Amended) The master ~~device~~ STT as defined in claim 1, wherein the received multiplexed signal further comprises a program information component, and the master ~~device~~ STT further comprises a program guide generator, receiving the program information from the received multiplexed signal and generating a program guide therefrom that can be transmitted by the transmitter upon a user request for the program guide at the remote ~~device~~ STT.

16.   (Currently Amended) The master ~~device~~ STT as defined in claim 1, wherein the system further comprises an internet connection, and the transmitter is capable of transmitting content derived from the internet connection to the remote ~~device.~~ STT.

17.   (Currently Amended) A master ~~device,~~ set top terminal (STT), comprising:

a first tuner tuning a digital television signal from a received multiplexed ~~signal;~~ signal into a first tuned digital television signal;

a second tuner tuning the digital television signal from the received multiplexed signal into a second tuned digital television signal;

a transmitter coupled to the ~~first~~ first tuner and transmitting the first tuned digital

television signal to a remote ~~device~~ STT to be displayed on a viewing device;

a receiver receiving a control signal from the remote ~~device~~ STT corresponding to

a user input; and

a controller coupled to the receiver and configured to accept the control signal

from the receiver and instruct the first tuner to change the first tuned digital television signal in

response thereto, such that the transmitter transmits the changed first tuned digital television

signal to the remote ~~device~~ STT for display on the viewing ~~device~~ STT within two seconds from

the remote ~~device~~ STT receiving the user input.

18.   (Currently Amended) The master ~~device~~ STT as defined in claim 17, wherein the

changed tuned digital television signal is displayed on the viewing device within a half-second

from the user input being received at the remote ~~device~~ STT.

19.   (Currently Amended) The master ~~device~~ STT as defined in claim 17, wherein the

tuned digital television signal is re-encoded at a lower bit-rate prior to being transmitted to the

remote ~~device.~~ STT.

20.   (Currently Amended) The master ~~device~~ STT as defined in claim 19, wherein the

digital television signal is an MPEG-2 signal at a 3Mbps bit-rate, and the re-encoded signal is a

lower quality video signal.

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21.   (Currently Amended) The master ~~device~~ STT as defined in claim 20, wherein the re-encoding format is selected from the group consisting of H.263 and low bit-rate MPEG-2.

22.   (Currently Amended) A master ~~device,~~ set top terminal (STT), comprising:

a first tuner tuning a television signal from a received multiplexed ~~signal;~~ signal, into a first tuned television signal;

a second tuner tuning the television signal from the received multiplexed signal, into a second tuned television signal;

a radio frequency driver receiving the first tuned television signal and outputting an analog television signal;

a computer, comprising:

a video capture card coupled to the radio frequency driver, receiving the analog television signal and digitizing it for display on a computer monitor;

a NetMeeting program, residing in a memory and running on a processor, receiving the output of the video capture card and compressing the digitized ~~signal~~ signal;

a network device receiving the output of the NetMeeting program, wherein the network device is an IEEE 802.11b wireless ethernet card which modulates and transmits a wireless signal to a remote ~~device~~ STT with a viewing device, and receives control signals from the remote ~~device~~ STT corresponding to user input;

an internet connection receiving data from an internet website,

which is associated with the tuned television signal, and transferring the

data to the network device; and

a controller coupled to the computer and configured to accept the control signals

from the computer and instruct the first tuner to change the tuned television signal in response

thereto such that the transmitter transmits a changed encoded signal to the remote ~~device~~ STT for

display on the viewing ~~device within three seconds from a remote device receiving the user input.~~

device.

23. – 51.   (Canceled)

52.   (Currently Amended) A television distribution system comprising:

a remote ~~device~~ set top terminal (STT) comprising:

a first receiver receiving an encoded video signal from a master

~~device;~~ STT;

a decoder coupled to the first receiver and translating the encoded

video signal into a decoded video signal suitable for a viewing device;

a user interface receiving a user input and converting it to a control

signal;

a first transmitter coupled to the user interface and sending the

control signal to the master ~~device~~ STT to achieve a change in the encoded

video signal;

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the receiver receives a change in the encoded video signal responsive to the control signal, wherein the remote ~~device~~ STT sends the change to the viewing device within three seconds of the user input;

a master ~~device~~ STT comprising:

a first tuner tuning a television signal from a received multiplexed ~~signal;~~ signal, into a first tuned television signal;

a second tuner tuning a television signal from the received multiplexed signal into a second tuned television signal;

an encoder coupled to the first tuner and encoding the first tuned television signal;

a second transmitter coupled to the output of the encoder, and sending an encoded video signal to the remote ~~device;~~ STT;

a second receiver receiving the control signal from the remote ~~device;~~ STT; and

a controller coupled to the receiver and configured to accept the control signal from the receiver and instruct the first tuner to change the first tuned television signal in response thereto, such that the transmitter transmits a changed encoded signal to the remote ~~device~~ STT for display on the viewing device within three seconds from the remote ~~device~~ STT receiving the user input.

53.   (Original) The system as defined in claim 52, wherein the response to the user input is seen at the viewing device within two seconds after the user input is received.

54.   (Original) The system as defined in claim 53, wherein the response to the user input is seen at the viewing device within a half-second after the user input is received.

55.   (Original) The system as defined in claim 52, wherein the video encoder uses a form of digital compression.

56.   (Original) The system as defined in claim 55, wherein the video encoder is selected from the group consisting of Microsoft NetMeeting, Windows Media Player, and Real Player.

57.   (Original) The system as defined in claim 55, wherein the encoding format is at least one of H.263, H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

58.   (Original) The system as defined in claim 57, wherein the encoding format is H.263 and at least one of H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

59.   (Original) The system as defined in claim 57, wherein the encoding format is low bit-rate MPEG-2 and at least one of H.323, H.324, MPEG-1, MPEG-2 or MPEG-4.

60.   (Currently Amended) The system as defined in claim 52, wherein the multiplexed signal further comprises a broadcast file system signal, and the master ~~device~~ <u>STT</u> further comprises a program guide generator, receiving the broadcast file system signal, compiling a

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database therefrom, and generating a program guide therefrom that can be viewed by the viewing device upon a user request for the program guide at the remote ~~device.~~ STT.

61.　(Currently Amended) The system as defined in claim 52, wherein the remote ~~device~~ STT further comprises a web browser, and the master ~~device~~ STT comprises an internet connection coupled to the transmitter, allowing the web browser to browse a plurality of websites.

62.　(Currently Amended) The system as defined in claim 52, wherein the remote ~~device~~ STT further comprises an internet connection coupled to a web browser, allowing the remote ~~device~~ STT to browse a plurality of websites.

63.　(Currently Amended) The system as defined in claim 52, wherein the master ~~device~~ STT further comprises a web browser and an internet connection and is capable of transmitting an image of the web browser and website to the remote ~~device.~~ STT.

64.　(Currently Amended) A television distribution system, comprising:

a remote ~~device,~~ set top terminal (STT), comprising:

an IEEE 802.11b wireless ethernet device receiving a modulated television signal from a master ~~device~~ STT and demodulating the modulated television signal to an encoded video stream and an internet data ~~stream;~~ stream, wherein the received modulated television signal is tuned by the master STT;

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a decoder coupled to the output of the wireless ethernet device, and

decoding the encoded video stream into a decoded video signal suitable

for a viewing device;

a user interface receiving a user input and converting it to a control

signal, coupled to the wireless ethernet device sending the control signal to

the master ~~device;~~ STT;

a viewing device coupled to the decoder and displaying the

decoded video stream, wherein for a change requested by a user input the

remote ~~device~~ STT is responsive within a half-second of the user input;

an internet browser coupled to the internet data stream and

displaying the internet data stream, wherein when a program change

occurs, the internet browser redirects to a website associated with the

changed program;

the master ~~device~~ STT comprising:

a first tuner tuning a television signal from a received multiplexed

~~signal;~~ signal, into a first tuned television signal;

a second tuner tuning the television signal from the received

multiplexed signal into a second tuned television signal;

a radio frequency driver coupled to an output of the first tuner

~~output~~ and outputting an analog television signal;

a computer, comprising:

a video capture card coupled to the radio frequency
driver digitizing the analog television signal for display on
a computer monitor;

a NetMeeting program, residing in a memory and
running on a processor, receiving the output of the video
capture card and compressing the digitized signal

a network device coupled to the NetMeeting
program, wherein the network device is an IEEE 802.11b
wireless ethernet card which modulates and transmits the
compressed digitized signal to the remote ~~device,~~ STT, and
receives control signals from the remote ~~device~~ STT
corresponding to a user input;

an internet connection coupled to the internet and
receiving data from a website, wherein the data is
associated with the tuned television signal, and transferring
the data to the network device; and

a controller coupled to the computer and configured to accept the
control signals from the computer and instruct the first tuner to change the
tuned television signal in response thereto such that the transmitter
transmits a changed encoded signal to the remote ~~device~~ STT for display
on the viewing device within three seconds from the remote ~~device~~ STT
receiving the user input.

65.   (Currently Amended) A method of interactively distributing a video signal from a master ~~device,~~ set top terminal (STT), the method comprising the steps of:

receiving a multiplexed signal;

tuning a television signal from the multiplexed ~~signal;~~ signal into a first tuned television signal with a first tuner;

tuning the television signal from the multiplexed signal into a second tuned television signal with a second tuner;

determining whether the first tuned television signal is encoded, and encoding the tuned television signal if it is not encoded;

transmitting the encoded tuned television signal to a remote ~~device;~~ STT;

receiving a control signal from the remote ~~device;~~ STT; and

changing the transmitted signal in response to the control signal from the remote ~~device~~ STT within three seconds of a user input requesting such a change.

66.   (Currently Amended) The method as defined in claim 65, wherein the changed transmitted signal can be displayed at the remote ~~device~~ STT within two seconds of a user input.

67.   (Currently Amended) The method as defined in claim 66, wherein the changed transmitted signal can be displayed at the remote ~~device~~ STT within a half-second of a user input.

68.   (Currently Amended) The method as defined in claim 66, wherein the encoding comprises digitally compressing the tuned television signal.

69.   (Currently Amended) The method as defined in claim 68, wherein the encoding is performed by a device selected from the group consisting of Microsoft NetMeeting, Windows Media Player, and Real Player.

70.   (Currently Amended) The method as defined in claim 68, wherein the method further comprises sacrificing video quality by immediately transmitting the encoded tuned television signal in order to achieve low latency between the user input and reception of the changed signal at the remote ~~device.~~ STT.

71.   (Original) The method as defined in claim 70, wherein the method further comprises increasing the video quality after a delay, wherein the delay allows a higher quality video signal to be encoded for transmission.

72.   (Original) The method as defined in claim 71, wherein the encoding format is at least one of H.263, H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

73.   (Original) The method as defined in claim 72, wherein the encoding format is H.263 and at least one of H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

74.   (Original) The method as defined in claim 72, wherein the encoding format is low bit-rate MPEG-2 and at least one of H.323, H.324, MPEG-1, MPEG-2 or MPEG-4.

75.   (Currently Amended) The method as defined in claim 72, wherein the transmitted signal includes an encoding parameter, allowing the remote ~~device~~ STT to decode the transmitted signal using multiple decoding algorithms according to the encoding parameters.

76.   (Currently Amended) The method as defined in claim 65, wherein the multiplexed signal further comprises a program information component, and method further comprises generating a program guide from the information component of the multiplexed signal, transmitting the program guide to the remote ~~device~~ STT upon user request.

77.   (Currently Amended) The method as defined in claim 65, wherein the method further comprises providing an internet connection, and allowing the remote ~~device~~ STT to browse the internet using a web browser.

78.   (Original) The method as defined in claim 65, wherein the method further comprises re-encoding the multiplexed signal if it is already encoded, wherein the re-encoding is at a lower bit-rate digital compression than the multiplexed signal.

79.   (Original) The method as defined in claim 78, wherein the multiplexed signal is encoded according to an MPEG-2 standard at 3Mbps, and the re-encoding format is a lower bit-rate standard.

80.   (Original) The method as defined in claim 79, wherein the re-encoding format is H.263 or low bit-rate MPEG-2.

81.   (Currently Amended) A method of interactively distributing a video signal from a master ~~device,~~ set top terminal (STT), the method comprising the steps of:

receiving a multiplexed signal;

tuning a television signal from the multiplexed ~~signal;~~ signal with a first tuner into a first tuned television signal;

tuning the television signal from the multiplexed signal with a second tuner into a second tuned television signal;

sending the first tuned television signal to a computer to be digitized by a video capture card and encoded by a NetMeeting program;

using an IEEE 802.11b wireless ethernet device to transmit the encoded signal to a remote ~~device;~~ STT;

receiving a control signal at the IEEE 802.11b wireless ethernet device, from the remote ~~device;~~ STT;

changing the transmitted signal in response to the control signal from the remote ~~device~~ STT within three seconds of a user input requesting such a change; and

providing an internet connection, and sending the data to the wireless ethernet device, allowing the remote ~~device~~ STT to browse the internet.

82.   (Currently Amended) A method of interactively receiving a video signal from a wireless master ~~device,~~ set top terminal (STT), the method comprising the steps of:

receiving a first compressed video signal from a first tuner of a master ~~device;~~ STT, wherein the master STT includes the first tuner and a second tuner;

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decompressing the first compressed video signal;

sending the first video signal to a viewing device;

receiving a user input corresponding to a requested change in the video signal;

deriving a control signal from the user input;

transmitting the control signal to the master ~~device;~~ STT;

receiving a second compressed video signal from the master ~~device;~~ STT, the second compressed video signal being tuned by the first tuner of the master STT; and

sending the second compressed video signal to the viewing device within three seconds from receiving the user input.

83.   (Original) The method of claim 82, wherein the second compressed video signal is sent to the viewing device within two seconds of receiving the user input.

84.   (Original) The method of claim 83, wherein the second compressed video signal is sent to the viewing device within a half-second of receiving the user input.

85.   (Original) The method of claim 84, wherein the wherein the method for receiving and transmitting are selected from the group consisting of the standards HomePlug and HomePNA.

86.   (Original) The method as defined in claim 82, wherein the method for receiving and transmitting are selected from the group consisting of the standards IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, Bluetooth 2.0, HomeRF 2.0, HiperLAN/2, and Ultra-Wideband.

87.   (Original) The method as defined in claim 82, wherein the viewing device is a TV Pad with a liquid crystal display.

88.   (Original) The method as defined in claim 82, wherein the viewing device is a television.

89.   (Original) The method as defined in claim 82, wherein the viewing device is a personal digital assistant.

90.   (Original) The method as defined in claim 82, wherein the viewing device is a laptop computer.

91.   (Currently Amended) The method as defined in claim 90, wherein the method for receiving and transmitting comprises using a PCMCIA card to communicate with the master ~~device.~~ STT.

92.   (Currently Amended) The method as defined in claim 82, wherein the first and second compressed video signals received from the master ~~device~~ STT are also encrypted, and the method further comprises the step of decrypting the first and second compressed video signals.

93.   (Original) The method as defined in claim 82, wherein the decompressing is performed by software selected from the group consisting of Microsoft NetMeeting, Windows Media Player, and Real Player.

94.   (Original) The method as defined in claim 82, wherein the first and second compression formats are at least one of H.263, H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

95.   (Original) The method as defined in claim 94, wherein the first and second compression formats are H.263 and at least one of H.323, H.324, MPEG-1, low bit-rate MPEG-2, MPEG-2 or MPEG-4.

96.   (Original) The method as defined in claim 94, wherein the first and second compression formats are low bit-rate MPEG-2 and at least one of H.263, H.323, H.324, MPEG-1, MPEG-2 or MPEG-4.

97.   (Original) The method as defined in claim 94, wherein the first and second compression formats for the received compressed video signals change after a period of time, thus changing the decompression algorithm.

98.   (Original) The method as defined in claim 94, wherein the decompression format is changed according to an compression parameter flag sent to and sensed when decompressing.

99.   (Original) The method as defined in claim 98, wherein the decompression format comprises more than one standard, and uses the compression parameter flag includes an indication telling the decompressor what format to use to decompress the signal.

100.   (Currently Amended) The method as defined in claim 82, wherein the method further comprises receiving internet data from the master ~~device,~~ STT, and the using a web browser to view the internet data.

101.   (Original) The method as defined in claim 100, wherein the first and second compressed video signals received include a program information component, and the method further comprises redirecting to a website that has some correlation to the program information.

102.   (Currently Amended) A method of interactively receiving a video signal from a wireless master ~~device,~~ set top terminal (STT), the method comprising the steps of:

receiving a wireless ethernet modulated signal from a master ~~device,~~ STT that includes a first tuner and a second tuner, wherein the modulated signal comprises a first tuned and compressed video signal and a first internet data signal;

demodulating the first wireless ethernet modulated signal to the component parts;

decompressing the first tuned and compressed video signal;

sending the first video signal to a viewing device;

receiving a user input corresponding to a requested change in the first video signal;

deriving a control signal from the user input;

transmitting the control signal to the master ~~device;~~ STT;

receiving a second tuned and compressed video signal from the master ~~device;~~

STT;

sending the second tuned and compressed video signal to the viewing device

within three seconds from receiving the user input;

providing a internet browser, receiving the first internet data signal; and

redirecting the master ~~device~~ STT to a new website such that the internet browser

receives a second internet data signal associated with a change in program after the user input.

103. – 112.   (Canceled)

113.   (Currently Amended) A method of interactively distributing a video signal from a

master wireless ~~device,~~ set top terminal (STT), the method comprising the steps of:

receiving a multiplexed signals;

tuning a television signal from the multiplexed ~~signal;~~ signal with a first tuner into

a first tuned television signal;

tuning the television signal from the multiplexed signal with a second tuner into a

second tuned television signal;

sending the first tuned television signal to a computer to be digitized by a video

capture card and encoded by a NetMeeting program;

using an IEEE 802.11b wireless ethernet device to transmit the encoded signal to

a remote ~~device;~~ STT;

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receiving a control signal at the IEEE 802.11b wireless ethernet device, from the remote ~~device;~~ STT;

changing the transmitted signal in response to the control signal from the remote ~~device~~ STT within three seconds of a user input requesting such a change;

providing an internet connection, and sending the data to the wireless ethernet device, allowing the remote ~~device~~ STT to browse the internet;

receiving a wireless ethernet modulated signal from the master ~~device,~~ STT, wherein the signal comprises a first compressed video signal and a first internet data signal;

demodulating the first wireless ethernet modulated signal;

decompressing the first compressed video signal;

sending the decompressed first video signal to a viewing device;

receiving a user input corresponding to a requested change of the first video signal;

deriving a control signal from the user input;

transmitting the control signal to the master ~~device,~~ STT, and receiving a second compressed video signal from the master ~~device~~ STT within three seconds from receiving the user input;

providing a internet browser, receiving the first internet data signal; and

redirecting the internet browser to receive a second internet data signal associated with a change in program after the user input.